

WHAT IS CLAIMED IS:

1. A solid-liquid separation filter cloth composed of a plurality of yarns in the transverse and the longitudinal directions, the filter cloth comprising a filtering portion having a structure and density according to desired filtering characteristics for separating liquid from a mixture consisting of solids and liquid, whereby the liquid in the mixture passes through the filter cloth and the solids in the mixture remains on a surface of the filter cloth, and which filter cloth is further to be arranged against a filtering element in a filtering apparatus, and an underside of the filter cloth, i.e., a portion facing the filtering element, comprises substantially parallel yarns that are thicker than the rest of the yarns of the cloth, and that the thicker yarns are placed at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto to provide desired parallel channels therebetween to enable the filtered liquid to flow in the direction of the surface of the filtering element between the filtering portion of the filter cloth and the filtering element.
2. The solid-liquid separation filter cloth as claimed in claim 1, wherein the thicker yarns are monofilaments, and that at least the yarns of the filter cloth that are parallel with the thicker yarns in the bottom and located at the thicker yarns are multifilaments, whereby the multifilament yarns have been moulded at the thicker yarns and thus form dense cloth also at the thicker yarns.
3. The solid-liquid separation filter cloth as claimed in claim 1, wherein the diameter difference between the other yarns and the thicker yarns of the filter cloth is at least 1 : 1.4 or more.
4. The solid-liquid separation filter cloth as claimed in claim 1, wherein the thicker yarns in the underside of the filter cloth have the same direction as a weft.
5. The solid-liquid separation filter cloth as claimed in claim 1, wherein at least some of the yarns used in the filter cloth are heat-shrinkable.
- 30 6. The solid-liquid separation filter cloth as claimed in claim 1, wherein batt has been needled to the filtering portion of an upper surface of

the filter cloth, i.e., a surface facing away from the filtering element, to obtain a denser structure.

7. A solid-liquid separation filtering module to be arranged on a filtering element as a filtering surface when liquid is separated from a mixture consisting of solids and liquid by means of a filtering apparatus, which filtering module is made of filter cloth comprising a filtering layer composed of yarns in the transverse and the longitudinal directions whereby the liquid in the mixture passes through the filter cloth and the solids in the mixture remains on a surface of the filter cloth, and an underside of the filter cloth, i.e., the surface to be against the filtering element, is comprised of substantially parallel yarns that are thicker than the other yarns of the filter cloth, and that desired channels are provided between the thicker yarns by the placement of the thicker yarns at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto, wherein the liquid filtered by the cloth is allowed to flow in the direction of a surface of the filtering element.

8. The solid-liquid separation filtering module as claimed in claim 7, wherein, the filter cloth is arranged such that the channels in the bottom of the cloth are directed according to a structure of the filtering module.

9. The solid-liquid separation filtering module as claimed in claim 7, wherein the filter cloth is arranged such that the channels in the bottom of the cloth are directed such that the channels lead the filtered liquid to openings in the filtering element.

10. The solid-liquid separation filtering module as claimed in claim 7, wherein the filtering module comprises heat-shrinkable yarns, allowing the filtering module to be stretched over the filtering element by thermal treatment.

11. A solid-liquid separation filtering apparatus, comprising:
a filtering module; and
a filtering element, wherein the filtering module is arranged on a filtering element as a filtering surface where liquid is separated from a mixture consisting of solids and liquid where, the filtering module is made of a filter cloth comprising a filtering layer composed of yarns in the transverse and the longitudinal directions whereby the liquid in the mixture passes through the

filter cloth and the solids in the mixture remains on a surface of the filter cloth, and an underside of the filter cloth, i.e. the surface to be against the filtering element, comprises of substantially parallel yarns that are thicker than the other yarns of the filter cloth, and desired channels are provided between the

5 thicker yarns by the placement of the thicker yarns at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto, wherein the liquid filtered by the filter cloth is allowed to flow in the direction of a surface of the filtering element.

12. The solid-liquid separation filtering apparatus as claimed in
10 claim 11, wherein the filtering module is arranged such that the channels in the bottom of the cloth are directed according to a structure of the filtering module.

13. The solid-liquid separation filtering apparatus as claimed in
claim 11, wherein the filtering module is arranged such that the channels in the bottom of the cloth are directed such that the channels lead the filtered liquid
15 to openings in the filtering element.

14. The solid-liquid separation filtering apparatus as claimed in
claim 11, wherein the filtering module comprises heat-shrinkable yarns, allowing the filtering module to be stretched over the filtering element by thermal treatment.